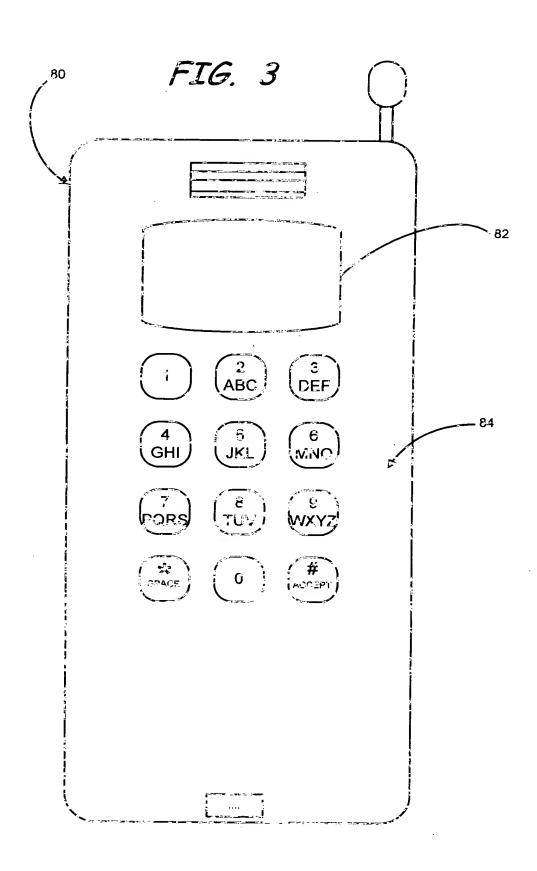
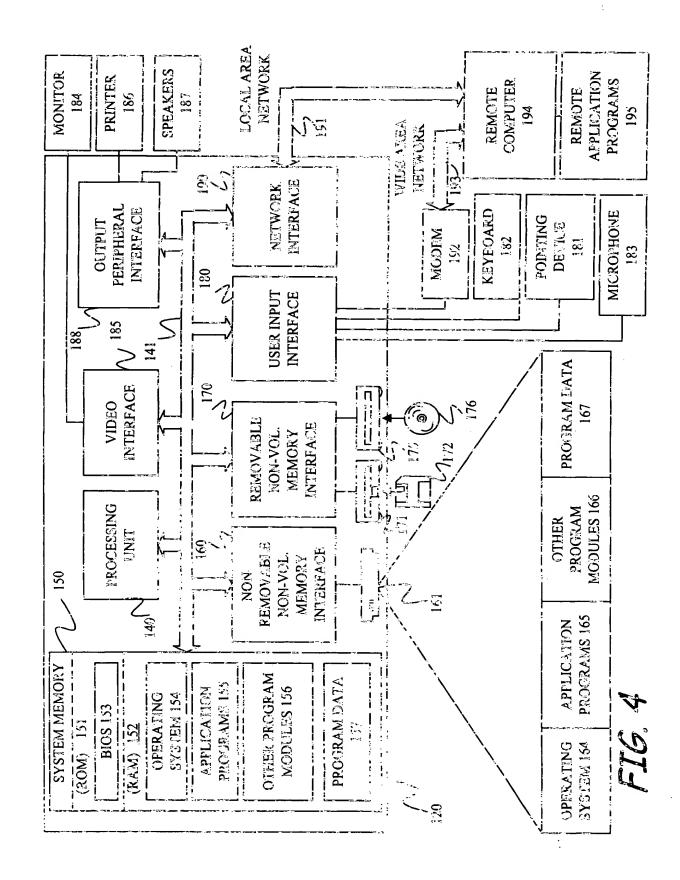


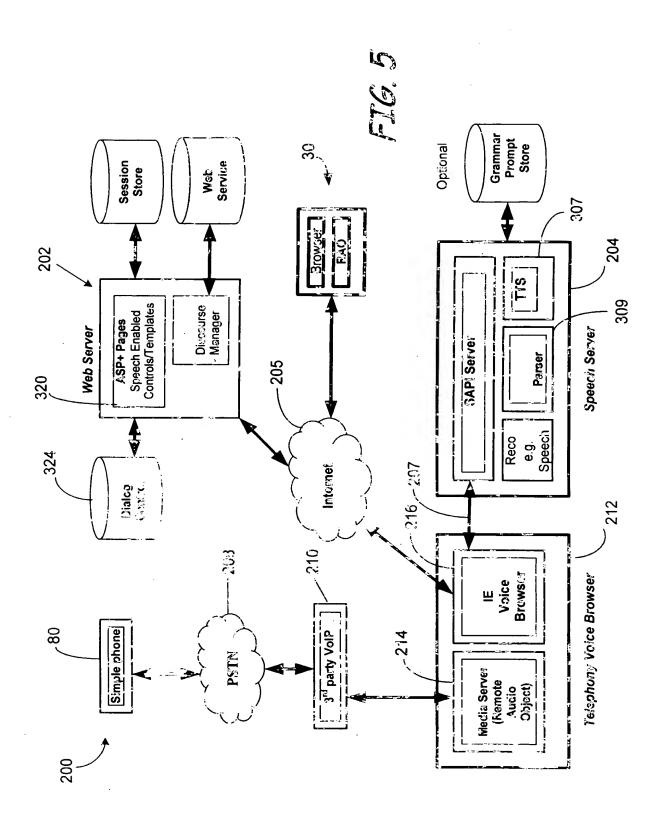
FI.5.2

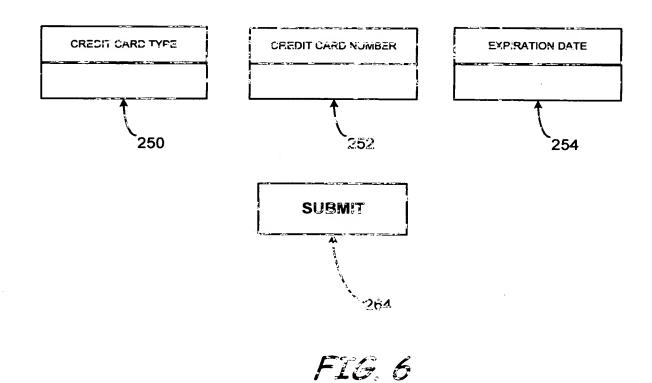




nggedang noten







```
var flag = window.confirm("submit the credit card info?");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               alert ("visa and master should have 16 digits");
                          <foin id="jet_card_info" method="post" action="http://payment.asp">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if :got_cand_info.card_type.value == "amex")
if (get_card_info.card_num.length":= 15)*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   alent ("amex should have 15 digits");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (get_card_info.card_num.length! = 16)
                                                                                                                                                                                                                                                                                                                                <input type="submit" value="Submit" onClick="verify()" />
                                                                                        <apble volue="almex">American Express/option>
                                                                                                                                                                                                                           dippu( type="text" name="card_num" width="30"
                                                                                                                                                          <applien Value = "ms"> MaskerCard < /a>/option>
                                                                                                                                                                                                                                                                                               <input type="text" name="expiry_date"/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           get_card_info.submit();
                                                                                                                       < อุกมัดย ชลในอะเชียลา> Visa < /option>
                                                                                                                                                                                                                                                                caChange="handle()" />
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               function venify() {
                                                                                                                                                                                                                                                                                                                                                                                                                                  function handle() (

calext name="card_type">
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (flag)
                                                                                                                                                                                                                                                                                                                                                                                                    <scrip:> <![CL/ATA]</pre>
                                                                                                                                                                                                                                                                                                                                                                     < //or.u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </scripl>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </atm/>
< htm/>
```

```
270
        <html>
            <form id="ç" ....card_info" method="post" action="http://payment.asp">
              <select name="card_type" onClick="taik(g_card_types)">
                 <option value="อกเอx">American Express</option>
                <option value="visa">Visa</option>
                <option value="ms">的に
                                                                                  -280
              </select>
              <recoid="g_card_types"onReso ="handle()">
               < grammar src = ",/gram#card__types" />
290 -
              </reco >
               <input type="text" name="card_num" width="30"
                 onClick="talk(g_card_nem)" />
              <recoid="g_card__num "onReco ="handle()">
                                                                                   282
               < grammar src=" ./gram#digits" />
              </reco >
              <input type="text" name="expiry_date" --</pre>
                 onClick="taik(g_expiry_date)"/>
              <reco id="g_expiry_date " >
                                                                                  284
                < grammar src = "
                                    ./gram #dates " />
              </reco >
              <input type="submit" value="Submit" onClick="verify()"/>
            </form>
            <script><![CDATA[
                    function talk(gob;) {
                        gobj.activate();
   272
                    function handle() {
                        if (get_card_info.card_num := null) {
                           if (get_card_info card_type.value == "amex") {
                               if (get_card_info.card_num.length != 15)
                                 alert ("amex should have 15 digits");
                            } else
                              if (get_card_info.card_num.length != 16)
                                 alert ("visa and master should have 16 digits");
                    function verify() {
                        var flag = window.com?!rm("submit the credit card
                 info?");
                        if (flag) (
                              get_card_info.submit();
                   }
             ]]>
           </script>
         </htm:>
```

```
< body >
              < form id = " gas_card_info " method = " post" action = " http://payment.asp "
                  onActivate = " welcom() ">
               < prempt id = " p_weicome "> - We ลอพ และส์ your credit card - </ prompt >
               < prompt ld = " p_mamble "> I didn't understand you </ prompt >
300
               < prempt id = "p _nard_type " bargein = " true "> What credit card would you
          use? </ prompt>
               < prompt id =" p_card_num " bargein ="true"> Please say the number"  /prompt>
               < prompt id =" p_cxpiry_date" bargein ="true"> What is the expiration
          date? 
              T< prompt id =" p_៥១១៤e១៤">
303 -
                   I have your < value select = " card_Sypo " /> < value select = " card_num " />
                    with expiration date
                  < value select = " expiry_date " />
                < prompt id =" p_confirm "> Ic this sorrect? </prompt>
               </reso >
               < reco id = " g_card_num " onNoReco = " mumble(this, 1) ">
  onReco = " _handle(@his, card_num) "/>
                 < grammar src =" ./gram#digiជន " />
               </reco > < reco |d = " g_expiry_date " onNoReco = " mumbie(chis, 1) " >
   305
                            onReco = "
                < grammar src = "
</reco >
               < reco id = " confirmation "
                                           onReco
                                                      =" confirmed(this) "/>
                  < grammar src=" ./gram#yespo "/>
                </reco > < select name = " card_type ">
                    < option value = "amax"> American Express </option>
                    < option value = "visa"> Visa </ option >
                    < option value ="ms"> Mଲ୍ଲ୍ଲିକେମ୍ଭିକrd </option >
                 </select >
                 < input type = "text" name = " cord_num " width = "30 " />.
                 < input type = "text" name = " @xpirty_ date " />
                  < input type = " aubmit" value = " 色に色研究 " />
               </form >
              < script > <!{CDATA!
                     function welcome() (
                       p welcome.accive();
                       cepeat = 0;
                       checkFilled();
  302
                       function mumble (gobj, maxprompts) {
                       gobj.deactivate().
                       p_mumble.active();
                       checkFil led();
                    TO FIG. 9B
                                                         FIG. 9A
```

```
function _handle() {
             handle();
checkFilled();
           function checkFilled() {
  if (card_type.value == "") {
    p_card_type.active();
}
                           g_card_types.activate(); return;

if (card_num.value =="") {
    p_card_num.active(); g_card_num.acti vate(); return;
}

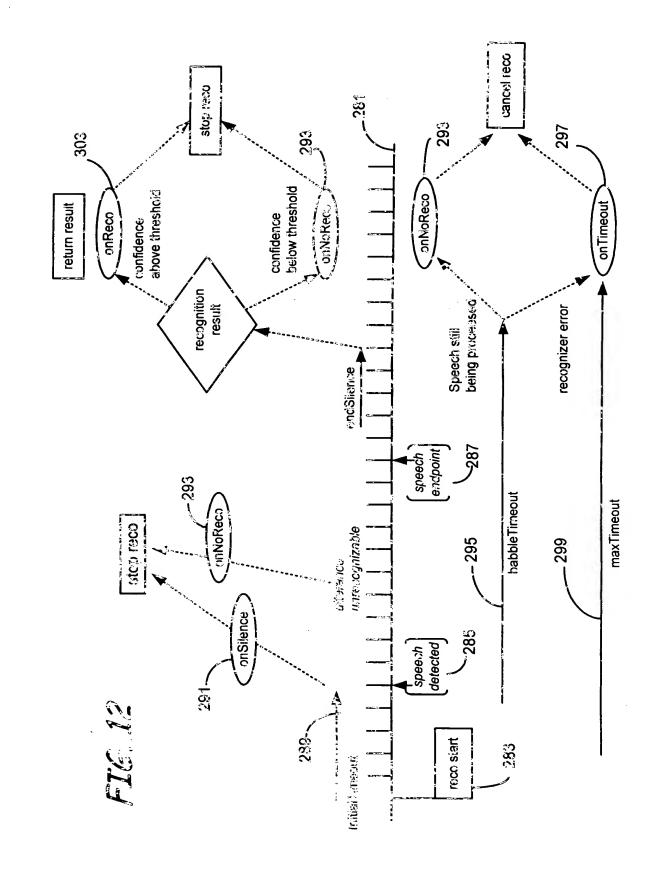
              if (expiry_date.value == "") {
    p_expiry_data.active(); g_expiry_date.activate(); return;
                p_content.activate();
              p_confirm.activate();
              confirmation.activate();
           function confirmed(gobj) {
    if (gobj.recogRes.text == "yes")
        get_card_info.submit();
                user codes start here
            function handle() {
               if (get_card_info.card_type == "amex") {
   if (get_card_info.card_num.length != 15) {
      prompt.speak ("amex_spould nave 15 digits");
      get_card_info.card_num == "";
}
              } else
if (get_card_info.card_num.length != 16) {
    prompt.speak ('viba and master should have 16 digits");
    get_card_info.card_num = "";
    ]]>̈
</script>
</body>
```

FIG. 9B

```
<body>
     <form id="gc" = "d_info" method="post" action="http://payment.asp"</pre>
        onactivate
                         ³me()">
                           nome">We now need your credit card</prompt>
        prompt id='; _...
                            blo">! didn't :-- ' rstand you</prompt>
                             ope" bargain="പച">What credit sard would you
        prompt !d=್ಟ್ರಿಡ್
use?</prompt>
        compt id="p_c__isy_date" bargein="true">What is the expiration
date?</prompt>
        compt id="p_comtent">
         I have your <value select="card_type" /> <value select="card_num" />
   with expiration date <value select="expiry_date" />
        convirm*>Is this correct?
        <reco id="g_get_card_info" onReco="_handle()" onNoReco ="mumble(this)">
     <grammar src ="./gram/getPayment"/>
          <bind target="card_type" value="/card/type" />
<bind target="card_num" value="/card/number" />
405 -
          <bind target="expiry_date" value="/card/expr_date" />
        </reco>
        <reco id="confirmation" onReco ="confirmed(this) onNoReco = "mumble(this)" />
          <grammar src ="./gram#yesno"/>
        </reco > <select name="card_type">
          <option value="amex">American Express</option>
          <option value="visa">Visa</option>
          <cption value⇒"ms">MasterCard≪/ວption>
        </select>
        <input type="text" name="card_num" width="30" />
        <input type="text" name="expiry_doke" />
        <input type="su_mit" value="Submit" />
    <, forma
     <script><!CDAT/.[
func:ligh well.</pre>
            p_weicome / Unive();
repest = 0;
ctiochi (1880);
          function mumble(pobj) {
  gooj.deactivate();
  p_mumble.active();
            checkid lled();
                                                      FIG. 10A
         function _handle() {
   handle();
   checkailled();
       TO FIG. 10B
```

FIG. 10B

```
SAMPLE ASP+ PAGE
<%0 Page language="Jscript" AutoEventWireup="false" Inherits="Credit.Transaction" %>
<html><head>
<!-- ASPX page for both voice-only & multimodal credit card example -->
<script>
function handle() {
        if (field == get card info.card num) {
           if (get_ward_info.card_num.length != 15) {
             prompt.speak ("amex should have 15 digits");
             get_card_info.card_num = "";
        } else
           if (get card info.card num.length != 16)
             prompt.speak ("visa should have 15 digits");
             get_card_info.card_num = "";
function gensml() (
      str = '<sml><credit_card><card_type>';
      str += card_type.value; str += '</card_type><number>';
      str += card number.value; str += '</number><expire>';
      str += expiry_date.value; str += '</expire></credit_card></sml>';
      return str;
</script>
<script runat="server">
function Page_Load (obj, args) {
      if (PostBack) {
         validator = new System.Speech.SMLValidator("./CreditSDL.xml");
         dsml = validator.Evaluate(args);
         Navigate (ChoosePage (dsml));
      } else {
        // initialize fields with args
</script>
</head>
<body>
<speech:form id="get card info" style="system initiative"</pre>
      prompt=" /prompt/getFayment" ensubmit="gensml()">
  <speech:choice name="card_type" prompt="What credit card would you use?"</pre>
      grammar="./gram#card_types" onPhraseTinish="handle()"
       <option>Amenican Express
       <option>Visa</option>
       <option>Mastercard </option>
  </speech:choice>
  <speech:textbox mame="card_number" prompt="Flease say the number"</pre>
       grammar="./gram@digits" onPhraseFinish="handle()">
  <speech:textbcx name="expiry_date" prompt="What is the expiration date? "</pre>
      grammar="./gram#dates" onPhraseFinish="handle()"/>
</speech:form>
</body>
</html>
```



<u> 1995022 - 12121</u>



